

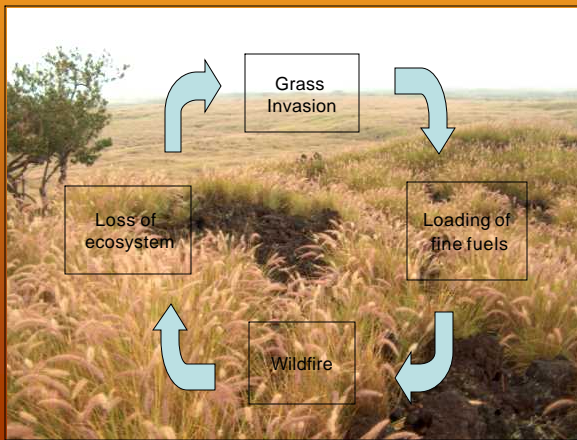
Wildfires

- Threaten residential communities
- Cause permanent loss of native dry forest and shrub ecosystems
- Degrade rangeland quality
- Decrease available wildlife habitat
- Cause loss of cultural and biological heritage



Issue/problem

- Invasive grasses such as fountain grass spread in arid natural areas in Hawaii.
- Invasive grasses carry fire easily and are difficult to control.

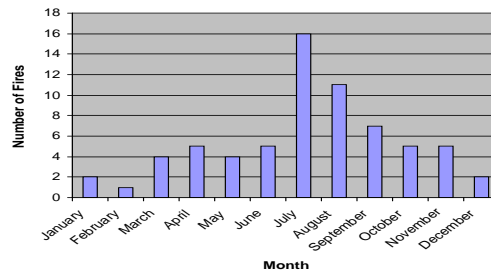


Ignitions

- Most fires are human-caused
- Most wildfires start along roadsides

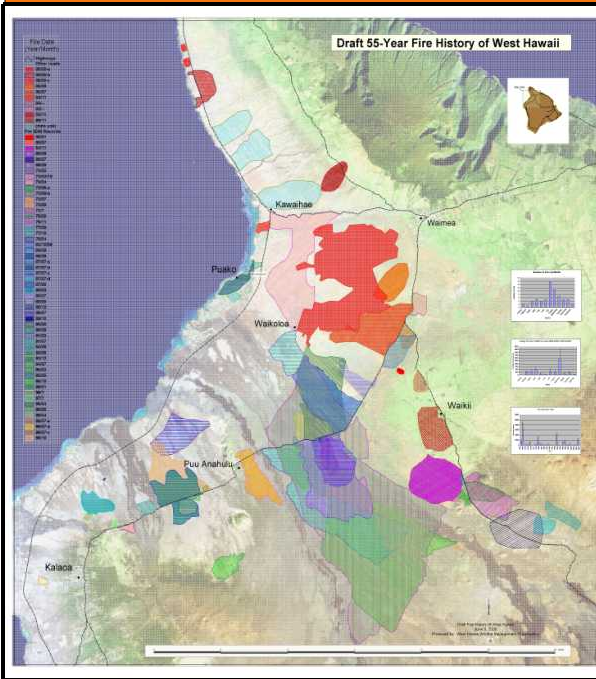


Number of Fires by Month

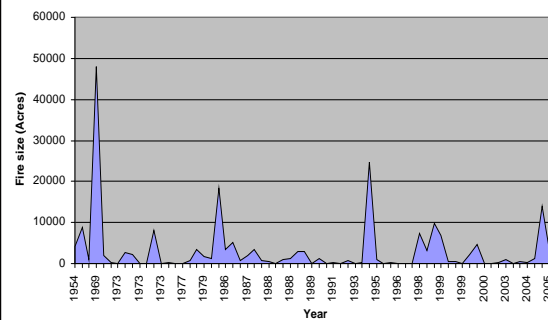


Month

Draft 55-Year Fire History of West Hawaii



Fire Size Over Time



Things you can do to protect your home and community

- Create defensible space around your home
 - Use fire safe construction materials
 - Apply a Firewise landscaping design



- Participate in community wildfire preparedness planning
- Visit www.Firewise.org to learn more

Fine Fuels Reduction Techniques for Landowners and other land managers

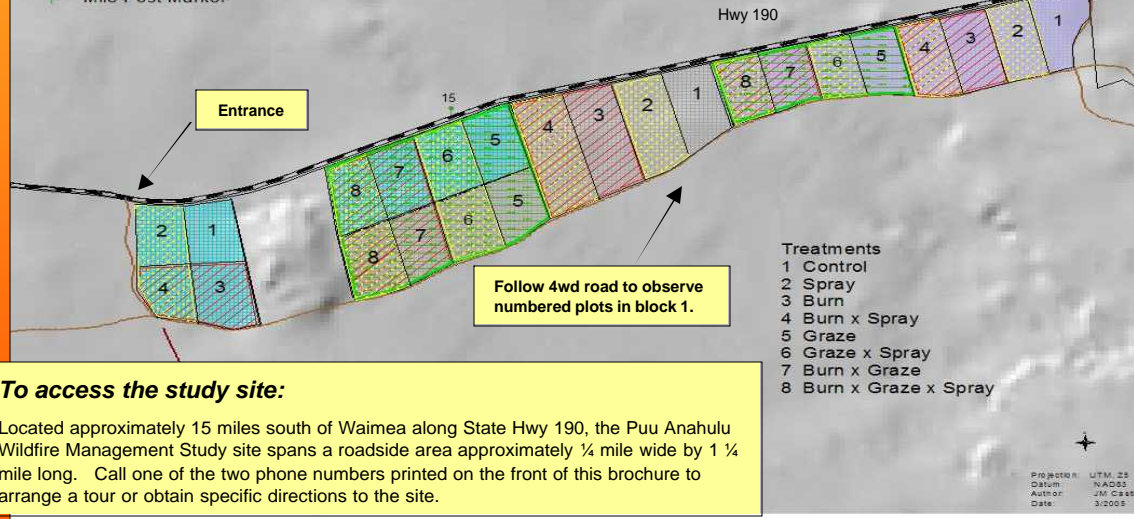
- Focus fine fuels along roadside areas
- Use combinations of prescriptions
- Consider weather patterns



This project was made possible with generous funding from the interagency Joint Fire Science Program.

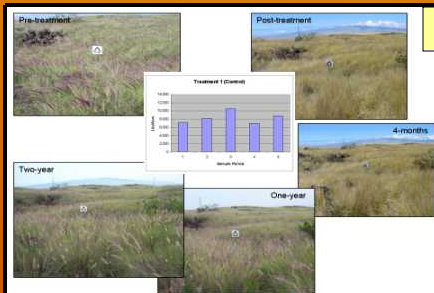
Puu Anahulu Wildfire Management Study Site

- Treatment Plot Boundaries
- Glyphosate Split-plot Treatments
- Cattle Grazing Paddocks
- Prescribed Burning Treatments
- Treatment Replicates
 - Block 1
 - Block 2
 - Block 3
- Firebreak Road
- Mamalahoa Hwy (190)
- Mile Post Marker



To access the study site:

Located approximately 15 miles south of Waimea along State Hwy 190, the Puu Anahulu Wildfire Management Study site spans a roadside area approximately ¼ mile wide by 1 ¼ mile long. Call one of the two phone numbers printed on the front of this brochure to arrange a tour or obtain specific directions to the site.

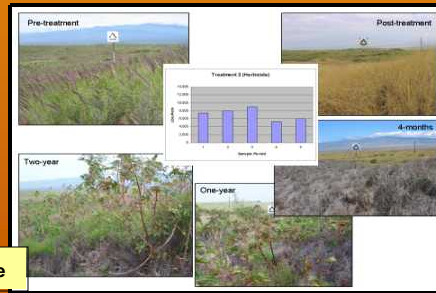


Control

- Slight annual fluctuations in fountain grass fuel load were observed

- Herbicide killed grass
- Changed composition of fuel type
- Caused a delayed reduction in fine fuel load

Herbicide

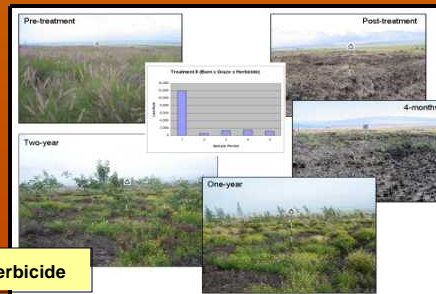


Prescribed Burn

- Removed fountain grass fuel load
- Did not kill grass
- Grew back slowly (> 2yr)

- Removed grass fuel load
- Created a lasting reduction in fine fuel load
- Changed structure and composition of fuel type

Burn-Graze-Herbicide



Wildfire Fuels Management in West Hawaii

The Puu Anahulu Wildfire Management Study: Techniques for Managing Invasive Grass Fuel Loads



The Puu Anahulu Wildfire Management Study is a collaborative research demonstration study to help identify and evaluate the effectiveness of a range of fine fuels management techniques.

For more information contact:

The West Hawai'i Wildfire Management Organization 501c3



64-1067 Mamalahoa Hwy, Suite C4
 Kamuela, HI 96743 Tel: (808)885-0900
 or the
 Hawai'i Division of Forestry and Wildlife
 66-1220A Lalamilo Rd.
 Kamuela, HI 97743 Tel.: (808)887-6063

